-	

Work Order ID 107269

107269

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September-23-1	3 11:46:12 AM										
Item ID: Revision ID:	D4057-1		CZ	Accept	*N900	<u>040</u>	100)* s	etup Sta	1 71	S1*
Item Name:	Retaining Ring	50	50	_					Ste	op *N	S2*
Start Date:		ty: 20.00	*20*		Cust Item I	D:					
Required Date	: 9/23/13 Req'd Q	ty: 20.00	*20*		Customer:		•				
Reference:							-	R	tun Sta	art *NI	D4*
Approvals:	Process Plan:		Date: 13-09-23	Tooling:	Da	ate:		-	St	!/	RT"
	QC:		Date:	SPC (Y/N):	Da	ate:			St	^տ *N	R2*
Sequence ID/ Work Center I	Operation Descript			Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
Draw Nbr	Revision Nbr	,									
D4057	A										
100				0.00				ا ہ	. /)	, ,	
100 Purchasing Purchasing		Purchase par Part #:R3100 Possible Sup	t as per Dwg D4057 0-75 plier: Spaenaur ase note required	0.00					X <u>13/</u>	09/24	50
110	Receive &	Inspect for Da	mage & Mat'l Certs	0.00						, . / /	
110 Packaging Packaging		Memo		0.00					193	17/27	(80)

											DQA:	Da	te:	*
NCR:	Yes	/ No				WORK ORDER NON-	CO	NFORM	MANCE / UPI	DATE	QA Closed	Da	te.	Ł
					-4:						-		ις.	<u> </u>
Work Orde	er:					DISPOSITION				AGAINST DE	PARTMENT	/PROCESS		
	•					Rework]		Skid-tube	Crosstube	1	Water Jet		Engineering
Part N	۱o.					Scrap	1	1	Machining	Small Fab	Pro	d. Eng. Coor.		Quality
	•				·	Use-as-is	1	Thern	noforming	Finishing	Rec/Sto	re/Packaging		Other
NCR I	No.					Work Order Update]		Large Fab	Composite		Supplier		
Root					Descri	ption of work order update	Τ	Initial	Act	ion	Sign &			-
Cause		Date	Step	Qty	(or Non-conformance	Cł	hief Eng	Desci	ription	Date	Verification	n	QC Inspector
Doc/Data														,
Equip/Tooling														
Operator	Ш													
Material			ļ				1							
Setup														
Other														
Process							İ							
Supplier														
Training														
Unapproved							<u> </u>			·				
							AUI	LT CATE	GORY					
Landi	_	1				General		7		<u></u>	7	,		
	-	Bending				Bend	\vdash	Grain			Ovalized		\vdash	Pressure/Forced
	\vdash	Centre N	ot Conce	ntric to	o/s	BOM/Route	<u>_</u>	Hardwa			Over/Under		_	Temperature/Cure
	-	Cracks			<u> </u>	Broken/Damaged	\perp	-1 `	on Incomplete	ļ	Part Incorre		\vdash	Weld
	\vdash	Crushed/	Crimped			Burrs	\perp	-1	ions Incomplete/l	Jnclear	Part Lost/M	issing		Wrong Stock Pulled
		Cuffs			<u> </u>	Contamination		Mainte		<u></u>	Part Moved			
		Heat Trea				Countersink	\perp	Mislabe	led		Positioned \	_		
		Inspectio	n Strip in	Tube		Cut Too Short		Misread	l		Power Loss,	'Surge		Other

Offset

Out of Calibration
Out of Sequence

Outside Dimensions

Turning Sequence

Wave/Twist in Tube

Ripples in Bend

Torque Waves in Extrusion

Drill Holes

Drawing

Finish Folio

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107269

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Work Order ID 107269

September-23-	13 11:46:12	AM									
Item ID: Revision ID:	D4057-1			Accept	*N9000	<u>140</u>	100)* s	etup Sta	rt *N	S1*
Item Name:	Retaining R	King		, ·					Sto	^p *N	S2*
Start Date:	9/18/13	Start Qty: 20.00	*20*		Cust Item II) :					
Required Date	e: 9/23/13	Req'd Qty: 20.00	*20*		Customer:						
Reference:								_		-4 -	
Approvals:	Process F	Plan:	Date:	Tooling:	Da	te:		М	tun Sta	" 1	R1*
	QC:		Date:	SPC (Y/N):	Da	te:			Sto	^{'p} *N	R2*
Sequence ID/ Work Center	ID	Operation Description		Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
120		OC6- Inspect dimensions	s to drawing	0.00	•					•	

Quality Control

120

120

130

Identify as per dwg & Stock Location: Www.oo3

Memo

QC6- Inspect dimensions to drawing

Memo

0.00

0.00

Packaging Packaging

130

140

OC21- Final Inspection - Work Order Release

Quality Control

Memo

0.00

0.00

01 R 13-09-30 N 13-09-30

										DQA:	Date:	% ∴s≱
NCR: Yes	s / No				WORK ORDER NON-C	CON	FORM	MANCE / UPI	DATE	QA Closed:	Date:	Ł
Work Order:					DISPOSITION				AGAINST DE	PARTMENT	/PROCESS	
Part No.					Rework Scrap Use-as-is Work Order Update		i	Skid-tube Machining noforming Large Fab	Crosstube Small Fab Finishing Composite		Water Jet d. Eng. Coor. re/Packaging Supplier	Engineering Quality Other
Root				Descri	ption of work order update	Ir	itial	Act	ion	Sign &		
Cause	Date	Step	Qty	(or Non-conformance	Chi	ef Eng	Desci	ription	Date	Verification	QC Inspector
Doc/Data												
quip/Tooling												
Operator												
Material							:					
Setup												
Other												
Process						1						
Supplier												
raining												
Jnapproved												
					F	AULT	CATE	GORY				
Landing	Gear				General		1.5					· · · · · · · · · · · · · · · · · · ·

Positioned Wrong Inspection Strip in Tube Power Loss/Surge Other Cut Too Short Misread Ripples in Bend Drill Holes Offset Torque Waves in Extrusion Drawing Out of Calibration Turning Sequence Finish Out of Sequence Wave/Twist in Tube Folio Outside Dimensions

Grain

Hardware

Maintenance

Mislabeled

Inspection Incomplete

Instructions Incomplete/Unclear

Ovalized

Part Incorrect

Part Moved

Part Lost/Missing

Over/Under tolerance

Pressure/Forced

Weld

Temperature/Cure

Wrong Stock Pulled

Bending

Cracks

Cuffs

Heat Treat

Crushed/Crimped

Centre Not Concentric to O/S

Bend

Burrs

BOM/Route

Contamination

Countersink

Broken/Damaged

Picklist Print

September-23-13 11:46:12 AM

Work Order ID:

107269

Parent Item:

D4057-1

Parent Item Name:

Retaining Ring

Start Date: 9/18/13

Required Date: 9/23/13

Page 1

Start Qty: 20.00

Required Qty: 20.00

Comments:

IPP rev A 10.02.02 new issue Prelim EC verified by:DD

IPP Rev:B 10.05.17 as per ECN10-562 DD verf:EC

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
R3100-75		Purchased	No			110	Each	0.0000	1	20			
Retaining Ring										<u></u>)		

Pelakha G

										DQA:	Date:	• ° 1
NCR: Y	es / N	10				WORK ORDER NON-C	ONFO	RMANCE / UI	PDATE	QA Closed:	Date:	,
Work Orde	eń:					DISPOSITION			AGAINST DE	PARTMENT	/PROCESS	
Part N						Rework Scrap Use-as-is Work Order Update	The	Skid-tube Machining rmoforming Large Fab	Crosstube Small Fab Finishing Composite	4	Water Jet d. Eng. Coor. re/Packaging Supplier	Engineering Quality Other
Root					Descri	ption of work order update	Initial	A	ction	Sign &		
Cause	Dat	te	Step	Qty	(or Non-conformance	Chief Er	g Des	cription	Date	Verification	QC Inspector
Doc/Data												
quip/Tooling										:		
Operator												
Material												
Setup												

Landing Gear General Bend Grain Ovalized Pressure/Forced Bending BOM/Route Over/Under tolerance Temperature/Cure Centre Not Concentric to O/S Hardware Broken/Damaged Part Incorrect Weld Inspection Incomplete Cracks Crushed/Crimped Instructions Incomplete/Unclear Part Lost/Missing Wrong Stock Pulled Burrs Cuffs Contamination Maintenance Part Moved Positioned Wrong Heat Treat Countersink Mislabeled Other Inspection Strip in Tube Misread Power Loss/Surge Cut Too Short Drill Holes Ripples in Bend Offset Torque Waves in Extrusion Drawing Out of Calibration Turning Sequence Finish Out of Sequence Folio Wave/Twist in Tube Outside Dimensions

FAULT CATEGORY

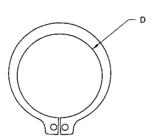
Other Process Supplier Training Unapproved

H:/FORMS/Quality Assurance\approved QA/NCRWO Rev G

SPECIFICATION CONTROL DRAWING







DART P/N	POSSIBLE SUPPLIER	SUPPLIER PART NUMBER	FREE DIAMETER	THICKNESS	FITS GROOVE WIDTH	COATING
D4057-1	SPAENAUR	R3100-75	0.693	0.042	0.046	NONE
	MAIN INDUSTRIAL	0-5100075	0.693	0.042	0.046	NONE



D4057-X RETAINING RING

NOTES:
1) MATERIAL: SEE TABLE
2) FINISH: N/A
3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
4) UNITS: INCHES UNLESS OTHERWISE NOTED
5) BREAK SHARP EDGES: N/A
6) IDENTIFICATION: IDENTIFY CONTAINER WITH DART P/N "D4057-X" AND B/N USING FINE POINT PERMANENT INK MARKER
7) WEIGHT: N/A

Α	NEW IS	SUE		4	10.02.05
REV.			DESCRIPTION	BY	DATE
DESIG	N	1	DART AEROS		
DRAW		15	HAWKESBURY, ONT		
CHECK			DRAWING NO.		REV. A
MFG. A		E.	D4057		SHEET 1 OF 1
APPRO		140	TITLE		SCALE
DE APP	PR.	_#	RETAINING RING		NTS
DATE	10.0	2.05	COPYRIGHT © 2010 BY DA THIS DOCUMENT IS PRIVATE AND COSHEDENTIAL AND IS SUIT NOT TO BE USED FOR ANY PURPOSE OR COPED OR COM- WRITTEN PIDIASSION FROM ON	PPLIED ON THE EXPRESS	

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С



Dart Aerospace Ltd. 1270 Aberdeen Street Hawkesbury, ON K6A 1K7 Tel: 613 632 9577

Fax: 613 632 1053

PURCHASE ORDER

Purchase Order ID PO21466

Purchase Order Date 9/24/2013 PO Print Date 9/24/2013

Page Number 1 of 1

Order From:

MAIN INDUSTRIAL SALES LTD. 1475, TESSIER HAWKESBURY, ON K6A 3S6 CA VC-MAI001

Ship To: DART AEROSPACE LTD

1270 ABERDEEN

HAWKESBURY, ON K6A 1K7

CANADA

FARO

Contact Name

Vendor Phone

Ship To Contact

Ship To Phone Ship Via:

Ship Acct:

B107269

613 632 3595

Yours ppd

Buyer

Chantal Lavoie

Customer POID
Customer Tax #

10127-2607

Terms

Net 30

Currency

CAD

FOB

FCA - (Free Carrier)

Line Nbr	Vendor Part Number Line Comments	Description/ Mfg ID	Req Date/ Taxable Promise Date		Req Qty/ Unit of Measure	PO Unit Price	Extended Price
- :	Delivery Comments R3100-75	Retaining Ring	9/27/2013		50,00	\$0.25	\$12.50
1	K3100-73	Retaining King	Yes 9/27/2013		Each		Ψ12.30
	AS PER DWG D4057 REV. A			Ĺ			

Line Total:

\$12.50

PO Total:

\$12.50

W

Note: Pricing listed above is as per contract agreement between Dart Aerospace and the respective manufacturer.

No substitution or deviation without consent.

Certificate of Conformity or Material Certification required YES

PST# 6122-5207

Change Nbr:

Change Date:

9/24/2013

MAIN INDUSTRIAL SALES LTD.

1475 TESSIER ST. HAWKESBURY ON K6A 3S6

Phone: (613) 632-3595 Ext. Fax: (613) 632-0262

sales@mainindustrialsales.com

Packing Slip

DATE September 27, 2013 NUMBER 0000166057 CUSTOMER NO. DART

BILL TO:

DART AEROSPACE LTD. 1270 ABERDEEN ST. HAWKESBURY ON K6A 1K7

SHIP TO:

DART AEROSPACE LTD. 1270 ABERDEEN ST. HAWKESBURY ON K6A 1K7

(613) 632-5200 Ext.

(613) 632-5200 Ext.

P.O. NUMBER	SALESPERSON	ORDER DATE	REQ. DATE	ORDER NUMBER			
21466	EB	25-Sep-13		0000166057			
F.O.B.	SHIP VIA		TERMS				
F.O.B. value	OUR TRUCK / LOCAL		NET 30 DAYS				
PART NUMBER			QUA	ANTITY			
DESCRIPTION	LOCATION	UOM	REQ. SI	IIPPED B.O.			
5100-075 RETAINING RING	7D5	EA	50	50			
YOUR PART # : R3100-75							
	:						